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PATENT  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of :  
Claude BARLIER, ET AL. :  
Application No. 10/530,504 :  
Filed: April 6, 2005 :  
For a Patent for a :  
MECHANICAL COMPONENT HAVING AT LEAST :  
ONE FLUID TRANSPORT CIRCUIT AND :  
METHOD FOR DESIGNING SAME IN STRATA : August 18, 2005

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This paper is being filed to advise the U.S. Patent Office of information which may be considered "material to patentability" in examining this patent application, in accordance with the provisions of 37 C.F.R. §1.56.

The present application is derived from International Application No. PCT/FR2003/002224, and was filed pursuant to 35 U.S.C. §371. The following documents are noted for being cited in the Search Report issued during the international stage of the International Application.

U.S. Patent

5,812,402 (Makiuchi, et al.) - Issued: September 22, 1998

Foreign Documents

EP 0 585 502 (Laboratoire ERIN.MP - Equipes de  
Recherche en Interface Numérique Mécanique  
et Production) - Published: March 9, 1994

WO 99/00234 (UT Automotive Dearborn Inc.) -  
- Published: January 7, 1999

Other Document

T. Himmer, et al., "Lamination of Metal Sheets", Computers  
in Industry, Elsevier Science Publishers, Amsterdam,  
Netherlands, Vol. 39, No. 1, Pages 27-33 (June 1999)

Copies of the above-listed documents should already  
have been received by the U.S. Patent Office, and the foregoing  
documents have been listed on the four (4) PTO-1449 forms which  
have been enclosed with this Information Disclosure Statement to  
facilitate the Examiner's acknowledgement of the above-listed  
documents.

The U.S. Patent Office is further advised of an earlier  
search which was performed relative to French Patent Application  
No. 02/12389, the priority of which is claimed in connection with  
the present application. A copy of the issued Search Report,

No. FA 628195, is enclosed with this Information Disclosure Statement. The documents cited in the French Search Report duplicate the documents cited in the PCT Search Report.

The following documents are also being submitted for consideration:

Foreign Documents

FR 2,834,803 (CIRTES SRC; Registration No. 02/00514) -

- Published: July 18, 2003

FR 2,809,040 (CIRTES) - Published: November 23, 2001

FR 2,808,896 (CIRTES) - Published: November 16, 2001

FR 2,789,188 (CIRTES) - Published: August 4, 2000

FR 2,789,187 (CIRTES) - Published: August 4, 2000

WO 02/22341 (Metallamics, Inc.) - Published: March 21, 2002

Other Document

T. Polito, "Comment Optimiser le Moulage des Plastiques"

("How to Optimize the Molding of Plastics"), Emballages Magazine, January-February 2002, Supplement No. 605, pages 56 and 57

Copies of the above-listed documents are enclosed with this Information Disclosure Statement. A concise explanation of the relevance of the (non-English language) documents is provided in applicants' specification.

The U.S. Patent Office is further advised of an earlier filed International Application, No. PCT/FR99/02788, which was assigned the U.S. Patent Application No. 09/856,208, and which has since issued as U.S. Patent No. 6,745,446, on June 8, 2004. The Search Report issued for International Application No. PCT/FR99/02788, and a Search Report (No. FA 564950) issued for French Patent Application No. 98/14688, the priority of which was claimed in connection with International Application No. PCT/FR99/02788, cite the same documents, including:

Foreign Documents

- DE 40 41 105 (Toepholm & Westermann APS) -
  - Published: June 25, 1992
- EP 0 655 668 (Ford Motor Company Ltd.) -
  - Published: May 31, 1995
- EP 0 585 502 (Laboratoire ERIN.MP - Equipes de Recherche en Interface Numérique Mécanique et Production) - Published: March 9, 1994

The following documents were cited by the U.S. Patent Office during the examination of U.S. Patent Application No. 09/856,208:

U.S. Patents

- 6,324,438 (Cormier et al.) - Issued: November 27, 2001

6,136,132 (Kinzie) - Issued: October 24, 2000  
5,847,958 (Shaikh et al.) - Issued: December 8, 1998  
5,765,137 (Lee) - Issued: June 9, 1998  
5,514,232 (Burns) - Issued: May 7, 1996  
4,752,352 (Feygin) - Issued: June 21, 1988  
4,675,825 (DeMenthon) - Issued: June 23, 1987  
3,932,923 (DiMatteo) - Issued: January 20, 1976

Foreign Document

2,011,814 (United Kingdom) - Published: July 18, 1979

U.S. Patent Application No. 09/856,208 was co-filed with an application derived from International Application No. PCT/FR99/02790, which was assigned the U.S. Patent Application No. 09/856,311. A continuation application has since been filed, which has been assigned the U.S. Patent Application No. 10/826,536. The Search Report issued for International Application No. PCT/FR99/02790, and a Search Report (No. FA 564949) issued for French Patent Application No. 98/14687, the priority of which was claimed in connection with International Application No. PCT/FR99/02790, cite the same documents, including:

U.S. Patent

4,001,069 (DiMatteo) - Issued: January 4, 1977

#### Foreign Documents

EP 0 738 583 (KIRA Corp.) - Published: October 23, 1996  
EP 0 655 317 (IBM) - Published: May 31, 1995  
EP 0 606 627 (IBM) - Published: July 20, 1994  
EP 0 585 502 (Laboratoire ERIN.MP - Equipes de  
Recherche en Interface Numérique Mécanique  
et Production) - Published: March 9, 1994  
WO/95 08416 (Massachusetts Institute of Technology)  
- Published: March 30, 1995

In addition to the documents cited in the International Search Report, the International Preliminary Examination Report further listed the following document:

#### U.S. Patent

5,354,414 (Feygin) - Issued: October 11, 1994

The following documents were cited by the U.S. Patent Office during the examination of U.S. Patent Application No. 09/856,311:

#### U.S. Patents

5,793,015 (Walczyk) - Issued: August 11, 1998  
5,663,883 (Thomas et al.) - Issued: September 2, 1997  
5,031,483 (Weaver) - Issued: July 16, 1991

5,015,312 (Kinzie) - Issued: May 14, 1991

4,752,352 (Feygin) - Issued: June 21, 1988

U.S. Patent Publication

2003/0006001 (Yang et al.) - Published: January 9, 2003

The U.S. Patent Office is further advised of an earlier filed International Application, No. PCT/FR01/01444, which has since been assigned the U.S. Patent Application No. 10/276,218, and which has since issued as U.S. Patent No. 6,921,068, on July 26, 2005. The Search Report issued for International Application No. PCT/FR01/01444, and a Search Report (No. FA 587287) issued for French Patent Application No. 00/06184, the priority of which was claimed in connection with International Application No. PCT/FR01/01444, cite the same documents, including:

U.S. Patent

3,790,152 (Parsons) - Issued: February 5, 1974

Foreign Documents

EP 0 811 457 (Tarumizu) - Published: December 10, 1997

FR 2 233 137 (Della Flora) - Published: January 10, 1975

The following documents were cited by the U.S. Patent

Office during the examination of U.S. Patent Application No.  
10/276,218:

U.S. Patents

3,790,152 (Parsons) - Issued: February 5, 1974

3,612,387 (Rathbun) - Issued: October 12, 1971

U.S. Patent Application No. 10/276,218 was co-filed with an application derived from International Application No. PCT/FR01/01445, which has since been assigned the U.S. Patent Application No. 10/276,217. The Search Report issued for International Application No. PCT/FR01/01445, and a Search Report (No. FA 587980) issued for French Patent Application No. 00/06181, the priority of which was claimed in connection with International Application No. PCT/FR01/01445, cite the same documents, including:

Foreign Documents

DE 37 11 470 (Fraunhofer Ges... Forschung) -

- Published: October 27, 1988

EP 0 655 668 (Ford Motor Company Ltd.) -

- Published: May 31, 1995

FR 2 750 064 (Richardson) - Published: December 26, 1997

FR 2 673 302 (Barlier) - Published: August 28, 1992

WO 91/12120 (Quadrax Corp.) - Published: August 22, 1991



#### Other Documents

- Patent Abstracts of Japan, vol. 016, no. 370 (M-1292) -  
- Published: August 10, 1992 (pertaining to JP 04  
118221 (Fujitsu Ltd.), published April 20, 1992)
- Patent Abstracts of Japan, vol. 1995, no. 11 -  
- Published: December 26, 1995 (pertaining to JP  
07 214274 (U Mold:KK), published August 15, 1995)

In addition to the documents cited in the International Search Report, the International Preliminary Examination Report further listed the following document:

#### U.S. Patent

EP 0 585 502 (Laboratoire ERIN.MP - Equipes de  
Recherche en Interface Numérique Mécanique  
et Production) - Published: March 9, 1994

The following documents were cited by the U.S. Patent Office during the examination of U.S. Patent Application No. 10/276,217:

#### U.S. Patents

6,617,601 (Wiklund) - Issued: September 9, 2003  
6,544,024 (Yim) - Issued: April 8, 2003  
6,409,902 (Yang et al.) - Issued: June 25, 2002

6,405,095 (Jang et al.) - Issued: June 11, 2002  
6,358,029 (Niimi) - Issued: March 19, 2002  
6,284,182 (McNally) - Issued: September 4, 2001  
6,276,656 (Baresich) - Issued: August 21, 2001  
5,725,891 (Reid, Jr.) - Issued: March 10, 1998  
4,781,555 (Cook) - Issued: November 1, 1988  
4,601,652 (Ando et al.) - Issued: July 22, 1986  
4,586,690 (Härtel et al.) - Issued: May 6, 1986  
4,338,068 (Suh et al.) - Issued: July 6, 1982  
3,039,146 (Engel) - Issued: June 19, 1962  
2,479,191 (Williams et al.) - Issued: August 16, 1949  
2,477,060 (Hudak) - Issued: July 26, 1949  
2,428,658 (Falk et al.) - Issued: October 7, 1947

U.S. Patent Application Publications

2003/0141609 (Jia) - Published: July 31, 2003  
2002/0162940 (Frul et al.) - Published: November 7, 2002

Other Document

Bocking et al., "Electrochemical Routes for Engineering Tool Production", The GEC Journal of Technology, Vol. 14, No. 2, pages 66 to 74 (1997)

The U.S. Patent Office is further advised of a later filed International Application, No. PCT/FR2003/000367, which

has not yet been assigned a U.S. patent application number. The Search Report issued for International Application No. PCT/FR2003/000367, cites the following documents:

U.S. Patent

5,776,409 (Almquist et al) - Issued: July 7, 1998

Foreign Documents

EP 0 763 417 (Toyota Jidosha Kabushiki Kaisha) -  
- Published: March 19, 1997

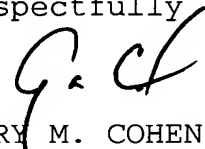
EP 0 585 502 (Laboratoire ERIN.MP - Equipes de  
Recherche en Interface Numérique Mécanique  
et Production) - Published: March 9, 1994

Copies of the above-listed Search Reports are enclosed with this Information Disclosure Statement. Also enclosed with this Information Disclosure Statement are copies of the "foreign documents" and the "other documents" which have been identified, for consideration in this matter. A concise explanation of the relevance of non-English language documents is available with reference to the Search Report which cited the non-English language document. Copies of the U.S. patent documents have not been enclosed with this Information Disclosure Statement in view of the waiver of such requirements for International Applications which entered their U.S. national stage after

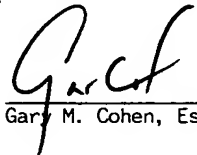
June 30, 2003 (OG Notices; 05 August 2003).

Due consideration of the foregoing documents is respectfully requested under 37 C.F.R. §1.56(a)(2). It is further respectfully requested that the Examiner acknowledge consideration of the above-listed documents by initialing the PTO-1449 forms (4) which are enclosed with this Information Disclosure Statement and which list the foregoing documents, and by providing applicants with initialed copies of the enclosed PTO-1449 forms to confirm consideration of the listed documents.

Respectfully submitted,

  
GARY M. COHEN, ESQ.  
Reg. No. 28,834  
Attorney for Applicants  
Tel.: (610) 975-4430

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" on August 18, 2005.

Date: 8/18/05   
Gary M. Cohen, Esq.

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
CIRTES5.D01APPLICATION NO.  
10/530,504List of Information Cited by Applicant  
(Use several sheets if necessary)APPLICANTS  
Claude BARLIER, ET AL.FILING DATE  
April 6, 2005GROUP  
(not yet assigned)

AUG 24 2005

## U.S. PATENT DOCUMENTS

TC 1700

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	6 9 2 1 0 6 8	07/26/05	Barlier et al.			
AB	6 7 4 5 4 4 6	06/08/04	Barlier			
AC	6 6 1 7 6 0 1	09/09/03	Wiklund			
AD	6 5 4 4 0 2 4	04/08/03	Yim			
AE	6 4 0 9 9 0 2	06/25/02	Yang et al.			
AF	6 4 0 5 0 9 5	06/11/02	Jang et al.			
AG	6 3 5 8 0 2 9	03/19/02	Niimi			
AH	6 3 2 4 4 3 8	11/27/01	Cormier et al.			
AI	6 2 8 4 1 8 2	09/04/01	McNally			
AJ	6 2 7 6 6 5 6	08/21/01	Baresich			
AK	6 1 3 6 1 3 2	10/24/00	Kinzie			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AL	0 8 1 1 4 5 7	12/10/97	EPO			
AM	0 7 6 3 4 1 7	03/19/97	EPO			
AN	0 7 3 8 5 8 3	10/23/96	EPO			
AO	0 6 5 5 6 6 8	05/31/95	EPO			
AP	0 6 5 5 3 1 7	05/31/95	EPO			

## OTHER INFORMATION (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	US	2003/0141609 A1 (Jia) - Published: July 31, 2003
AS	US	2003/0006001 A1 (Yang et al.) - Published: January 9, 2003
AT	US	2002/0162940 A1 (Fru1 et al.) - Published: November 7, 2002
AU		
AV		Bocking et al., "Electrochemical Routes for Engineering Tool Production", The GEC Journal of Technology, Vol. 14, No. 2, pages 66 to 74 (1997)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
CIRTES5.D01APPLICATION NO.  
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Claude BARLIER, ET AL.FILING DATE  
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(Use several sheets if necessary)

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA 5 8 4 7 9 5 8	12/08/98	Shaikh et al.			
	BB 5 8 1 2 4 0 2	09/22/98	Makiuchi et al.			
	BC 5 7 9 3 0 1 5	08/11/98	Walczyk			
	BD 5 7 7 6 4 0 9	07/07/98	Almquist et al.			
	BE 5 7 6 5 1 3 7	06/09/98	Lee			
	BF 5 7 2 5 8 9 1	03/10/98	Reid, Jr.			
	BG 5 6 6 3 8 8 3	09/02/97	Thomas et al.			
	BH 5 5 1 4 2 3 2	05/07/96	Burns			
	BI 5 3 5 4 4 1 4	10/11/94	Feygin			
	BJ 5 0 3 1 4 8 3	07/16/91	Weaver			
	BK 5 0 1 5 3 1 2	05/14/91	Kinzie			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	BL 0 6 0 6 6 2 7	07/20/94	EPO			
	BM 0 5 8 5 5 0 2	03/09/94	EPO			
	BN 2 8 3 4 8 0 3	07/18/03	France			
	BO 2 8 0 9 0 4 0	11/23/01	France			
	BP 2 8 0 8 8 9 6	11/16/01	France			

## OTHER INFORMATION (Including Author, Title, Date, Pertinent Pages, Etc.)

BR	T. Himmer, et al., "Lamination of Metal Sheets", Computers in Industry, Elsevier Science Publishers, Amsterdam, Netherlands, Vol. 39, No. 1, Pages 27-33 (June 1999)
BS	Patent Abstracts of Japan, vol. 016, no. 370 (M-1292) Published: August 10, 1992 (pertaining to JP 04 118221 (Fujitsu Ltd.), published April 20, 1992)
BT	Patent Abstracts of Japan, vol. 1995, no. 11 Published: December 26, 1995 (pertaining to JP 07 214274 (U Mold:KK), published August 15, 1995)

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	ENT & TRADEMARK OFFICE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	4 7 8 1 5 5 5	11/01/88	Cook			
	CB	4 7 5 2 3 5 2	06/21/88	Feygin			
	CC	4 6 7 5 8 2 5	06/23/87	DeMenthon			
	CD	4 6 0 1 6 5 2	07/22/86	Ando et al.			
	CE	4 5 8 6 6 9 0	05/06/86	Härtel et al.			
	CF	4 3 3 8 0 6 8	07/06/82	Suh et al.			
	CG	4 0 0 1 0 6 9	01/04/77	DiMatteo			
	CH	3 9 3 2 9 2 3	01/20/76	DiMatteo			
	CI	3 7 9 0 1 5 2	02/05/74	Parsons			
	CJ	3 6 1 2 3 8 7	10/12/71	Rathbun			
	CK	3 0 3 9 1 4 6	06/19/62	Engel			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
	CL 2 7 8 9 1 8 8	08/04/00	France				
	CM 2 7 8 9 1 8 7	08/04/00	France				
	CN 2 7 5 0 0 6 4	12/26/97	France				
	CO 2 6 7 3 3 0 2	08/28/92	France				
	CP 2 2 3 3 1 3 7	01/10/75	France				

## OTHER INFORMATION (Including Author, Title, Date, Pertinent Pages, Etc.)

CR	T. Polito, "Comment Optimiser le Moulage des Plastiques", ("How to Optimize the Molding of Plastics"), Emballages Magazine, January-February 2002, Supplement No. 605, pages 56 and 57
CS	
CT	

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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
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10/530,504List of Information Cited by Applicant  
(Use separate sheets if necessary)APPLICANTS  
Claude BARLIER, ET AL.FILING DATE  
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(not yet assigned)

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TC 1700

## U.S. PATENT DOCUMENTS

*EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DA	2 4 7 9 1 9 1	08/16/49	Williams et al.			
DB	2 4 7 7 0 6 0	07/26/49	Hudak			
DC	2 4 2 8 6 5 8	10/07/47	Falk et al.			
DD						
DE						
DF						
DG						
DH						
DI						

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DJ	4 0 4 1 1 0 5	06/25/92	Germany			
DK	3 7 1 1 4 7 0	10/27/88	Germany			
DL	WO/02 2 2 3 4 1	03/21/02	PCT			
DM	WO/99 0 0 2 3 4	01/07/99	PCT			
DN	WO/95 0 8 4 1 6	03/30/95	PCT			
DO	WO/91 1 2 1 2 0	08/22/91	PCT			
DP	2 0 1 1 8 1 4	07/18/79	United Kingdom			

## OTHER INFORMATION (Including Author, Title, Date, Pertinent Pages, Etc.)

DR	
DS	
DT	

EXAMINER

DATE CONSIDERED

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